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20504 Nervous system - Physiology and biochemistry
20506 Nervous system - Pathology
31000 Physiology and biochemistry of bacteria
BIOSYSTEMATIC CODES:
06702 Enterobacteriaceae

12/9/6 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0012628824 BIOSIS NO.: 200000347137
Genetic characterization of E. coli brain endothelial cell invasion gene ibeA by mutagenesis, complementation and protein expression
AUTHOR: Huang S H (Reprint); Wan Z S (Reprint); Chen Y H; Jong A Y (Reprint); Kim K S (Reprint)
AUTHOR ADDRESS: Childrens Hospital Los Angeles USC School of Medicine, Los Angeles, CA, USA**USA
JOURNAL: Abstracts of the General Meeting of the American Society for Microbiology 100 p79 2000 2000
MEDIUM: print
CONFERENCE/MEETING: 100th General Meeting of the American Society for Microbiology Los Angeles, California, USA May 21-25, 2000; 20000521
SPONSOR: American Society for Microbiology
ISSN: 1060-2011
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English
DESCRIPTORS:
MAJOR CONCEPTS: Molecular Genetics--Biochemistry and Molecular Biophysics ; Infection
BIOSYSTEMATIC NAMES: Enterobacteriaceae--Facultatively Anaerobic Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms
ORGANISMS: Escherichia coli (Enterobacteriaceae)--pathogen, strain-K1
ORGANISMS: PARTS ETC: blood- brain barrier--circulatory system, nervous system; brain --nervous system; endothelial cell
COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms
DISEASES: Escherichia coli meningitis--bacterial disease, nervous system disease
CHEMICALS & BIOCHEMICALS: IbeA protein ; pCVD442--plasmid; pET28a--plasmid; Escherichia coli ibeA gene--expression, genetic characterization
METHODS & EQUIPMENT: complementation--analytical method; mutagenesis--analytical method; nickel-NTA affinity chromatography--purification method; nickel-NTA affinity column--equipment
MISCELLANEOUS TERMS: Meeting Abstract; Meeting Abstract
CONCEPT CODES:
14504 Cardiovascular system - Physiology and biochemistry
00520 General biology - Symposia, transactions and proceedings
02506 Cytology - Animal
03502 Genetics - General
10062 Biochemistry studies - Nucleic acids, purines and pyrimidines
20504 Nervous system - Physiology and biochemistry
20506 Nervous system - Pathology
31000 Physiology and biochemistry of bacteria
31500 Genetics of bacteria and viruses
BIOSYSTEMATIC CODES:
06702 Enterobacteriaceae

12/9/7 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0012065028 BIOSIS NO.: 199900324688

Functional analysis of E. Coli invasion gene ibeB by mutagenesis, complementation and protein expression

AUTHOR: Chen Y H (Reprint); Kim K S (Reprint); Huang S H (Reprint)

AUTHOR ADDRESS: Childrens Hospital Los Angeles, Los Angeles, CA, USA**USA

JOURNAL: Abstracts of the General Meeting of the American Society for Microbiology 99 p62 1999 1999

MEDIUM: print

CONFERENCE/MEETING: 99th General Meeting of the American Society for Microbiology Chicago, Illinois, USA May 30-June 3, 1999; 19990530

SPONSOR: American Society for Microbiology

ISSN: 1060-2011

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MAJOR CONCEPTS: Molecular Genetics--Biochemistry and Molecular Biophysics

BIOSYSTEMATIC NAMES: Enterobacteriaceae--Facultatively Anaerobic

Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms

ORGANISMS: E. coli {Escherichia coli} (Enterobacteriaceae)

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms

CHEMICALS & BIOCHEMICALS: IbeB ; ibeB gene--expression, invasion locus

MISCELLANEOUS TERMS: Meeting Abstract; Meeting Poster; Meeting Abstract ; Meeting Poster

CONCEPT CODES:

31500 Genetics of bacteria and viruses

10060 Biochemistry studies - General

31000 Physiology and biochemistry of bacteria

00520 General biology - Symposia, transactions and proceedings

BIOSYSTEMATIC CODES:

06702 Enterobacteriaceae

12/9/8 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0011450839 BIOSIS NO.: 199800245086

Invasion of intestinal epithelial cells in vitro by Escherichia coli is influenced by microaerophilic conditions and the presence of ibe genes

AUTHOR: Pietzak Michelle M (Reprint); Badger Julie L; Wass Carol A; Thomas Dan W; Kim Kwang S

AUTHOR ADDRESS: Gastroenterol., Childrens Hosp. Los Angeles, Los Angeles, CA, USA**USA

JOURNAL: Pediatric Research 43 (4 PART 2): p154A April, 1998 1998

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the American Pediatric Society and the Society for Pediatric Research New Orleans, Louisiana, USA May 1-5, 1998; 19980501

SPONSOR: Society for Pediatric Research

ISSN: 0031-3998

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MAJOR CONCEPTS: Dental and Oral System--Ingestion and Assimilation;
 Infection
 BIOSYSTEMATIC NAMES: Enterobacteriaceae--Facultatively Anaerobic
 Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms; Hominidae--
 Primates, Mammalia, Vertebrata, Chordata, Animalia
 ORGANISMS: Escherichia- coli (Enterobacteriaceae); Caco-2 (Hominidae);
 C2-BBe-1 (Hominidae)
 ORGANISMS: PARTS ETC: intestinal epithelial cells--digestive system
 COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms; Animals;
 Chordates; Humans; Mammals; Primates; Vertebrates
 CHEMICALS & BIOCHEMICALS: ibe genes
 MISCELLANEOUS TERMS: cell invasion ; microaerophilic conditions;
 Meeting Abstract; Meeting Poster; Meeting Abstract; Meeting Poster
 CONCEPT CODES:
 36001 Medical and clinical microbiology - General and methods
 02508 Cytology - Human
 14001 Digestive system - General and methods
 00520 General biology - Symposia, transactions and proceedings
 BIOSYSTEMATIC CODES:
 06702 Enterobacteriaceae
 86215 Hominidae

12/9/9 (Item 5 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0010947004 BIOSIS NO.: 199799581064

Identification of brain microvascular endothelial cell receptor for E. coli invasin Ibe -10

AUTHOR: Nemani Prasad Rao V (Reprint); Huang Sheng-He; Wass Carol A; Kim Kwang Sik

AUTHOR ADDRESS: Div. Infectious Disases, Childrens Hosp. Los Angeles, Los Angeles, CA 90027, USA**USA

JOURNAL: Abstracts of the General Meeting of the American Society for Microbiology 97 (0): p50 1997 1997

CONFERENCE/MEETING: 97th General Meeting of the American Society for Microbiology Miami Beach, Florida, USA May 4-8, 1997; 19970504

ISSN: 1060-2011

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Cardiovascular System--Transport and Circulation; Infection; Nervous System--Neural Coordination

BIOSYSTEMATIC NAMES: Enterobacteriaceae--Facultatively Anaerobic Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms

ORGANISMS: Escherichia coli (Enterobacteriaceae)

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms

MISCELLANEOUS TERMS: BIOCHEMISTRY AND BIOPHYSICS; BLOOD- BRAIN BARRIER ; BRAIN MICROVASCULAR ENDOTHELIAL CELL; CELL MEMBRANE PROTEIN; CIRCULATORY SYSTEM; IBE -10; INVASIN; NERVOUS SYSTEM; Meeting Abstract ; Meeting Poster

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings

10060 Biochemistry studies - General

14501 Cardiovascular system - General and methods

20501 Nervous system - General and methods

36001 Medical and clinical microbiology - General and methods

BIOSYSTEMATIC CODES:
06702 Enterobacteriaceae

12/9/11 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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11378585 EMBASE No: 2001392869

A novel genetic island of meningitic Escherichia coli K1 containing the ibeA invasion gene (GimA): Functional annotation and carbon-source-regulated invasion of human brain microvascular endothelial cells

Huang S.-H.; Chen Y.-H.; Kong G.; Chen S.H.M.; Besemer J.; Borodovsky M.; Jong A.

S.-H. Huang, Department of Pediatrics, Childrens Hospital Los Angeles,
University of Southern California, 4650 Sunset Blvd., Los Angeles, CA
90027 United States

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Functional and Integrative Genomics (FUNCT. INTEGR. GENOMICS) (Germany)
2001, 1/5 (312-322)

CODEN: FIGUB ISSN: 1438-793X

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 46

The IbeA (ibe10) gene is an **invasion** determinant contributing to E. coli K1 **invasion** of the blood- **brain** barrier. This gene has been cloned and characterized from the chromosome of an invasive cerebrospinal fluid isolate of E. coli K1, strain RS218 (O18:K1: H7). In the present study, a genetic island of meningitic E. coli containing ibeA (GimA) has been identified. A 20.3-kb genomic DNA island unique to E. coli K1 strains has been cloned and sequenced from an RS218 E. coli K1 genomic DNA library. Fourteen new genes have been identified in addition to the ibeA. The DNA sequence analysis indicated that the ibeA gene cluster was localized to the 98 min region and consisted of four operons, ptnIPKC, cglDTEC, gcxKRCI and iberAT. The G+C content (46.2%) of unique regions of the island is substantially different from that (50.8%) of the rest of the E. coli chromosome. By computer-assisted analysis of the sequences with DNA and protein databases (GenBank and PROSITE databases), the functions of the gene products could be anticipated, and were assigned to the functional categories of proteins relating to carbon source metabolism and substrate transportation. Glucose was shown to enhance E. coli penetration of human **brain** microvascular endothelial cells and exogenous cAMP was able to block the stimulating effect of glucose, suggesting that catabolic regulation may play a role in control of E. coli K1 **invasion** gene expression. Our data suggest that this genetic island may contribute to E. coli **invasion** of the blood- **brain** barrier through a carbon-source-regulated process.

;
MOLECULAR SEQUENCE NUMBER: GENBANK, AF289032

DRUG DESCRIPTORS:

carbon; bacterial protein--endogenous compound--ec; bacterial DNA
--endogenous compound--ec; guanine--endogenous compound--ec; cytosine
--endogenous compound--ec; gene product--endogenous compound--ec; glucose;
cyclic AMP--endogenous compound--ec; unclassified drug

MEDICAL DESCRIPTORS:

*Escherichia coli ; *nucleotide sequence

meningitis; bacterial gene; regulatory mechanism; microvasculature;
endothelium cell; **brain** blood vessel; cell **invasion** ; blood **brain**

barrier; molecular cloning; bacterial chromosome; bacterium isolation;
cerebrospinal fluid; DNA sequence; DNA library; gene cluster; operon;
computer analysis; data base; bacterial metabolism; enzyme substrate;
stimulation; catabolism; metabolic regulation; gene expression; human;
nonhuman; controlled study; human cell; newborn; article; priority journal
DRUG TERMS (UNCONTROLLED): **IbeA protein** --endogenous compound--ec
CAS REGISTRY NO.: 7440-44-0 (carbon); 69257-39-2, 73-40-5 (guanine);
71-30-7 (cytosine); 50-99-7, 84778-64-3 (glucose); 60-92-4 (cyclic AMP)

SECTION HEADINGS:

004 Microbiology: Bacteriology, Mycology, Parasitology and Virology
007 Pediatrics and Pediatric Surgery
008 Neurology and Neurosurgery
028 Urology and Nephrology

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16may06 10:48:33 User228206 Session D2597.4

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